STAR

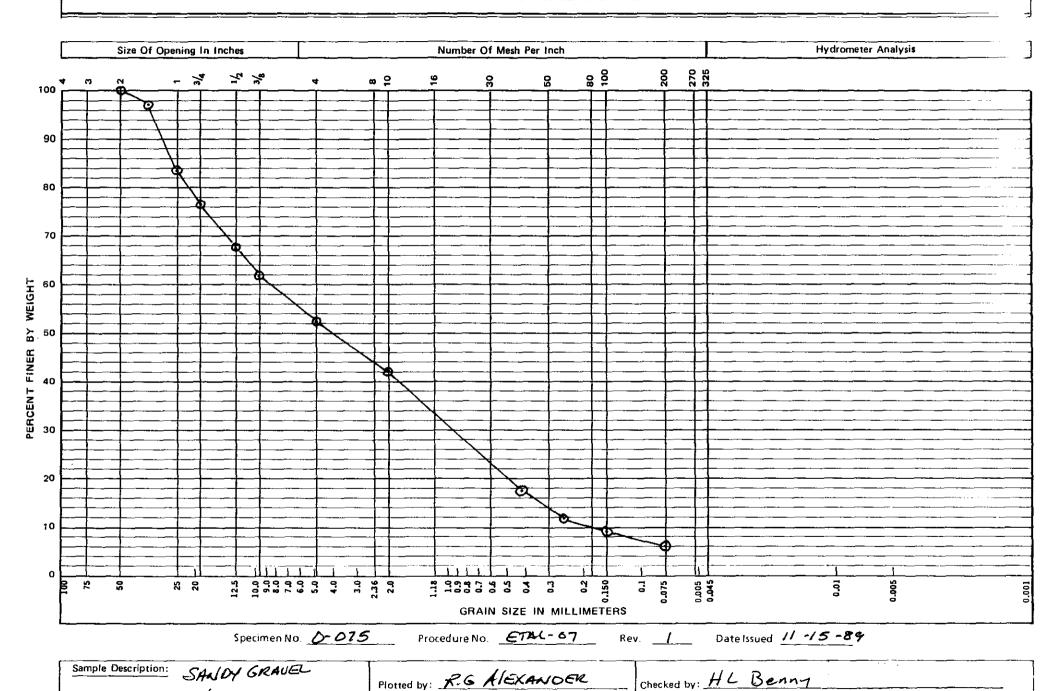
# TEST REQUEST FORM

Sample/Specimen	n No. <u>0-075</u>	Cost Code/Work Order No. ED 332
Requested By:	0rg. <u>81732</u>	Person J. LINDBERG Date 2-19-90
Test Requested	No. of Samples	Test Lab Information (Instruction Used)
SIDVE ANALYSIS HYDROUFIER		ETAL-07
MOISTURE		ETAL-14
410	NA	NIA
	•	
Remarks Field MW-z-1	SAMPLE	Received By: RGALEXANDER Date 2-6-90
		Approved By: R.G ALEXANDER Date 2-15-90



Γ						····	
			SIEVE ANA	LYSIS DAT			····
		le ID O			Page	of <u>!</u>	
	Te	sted By_6	R-G-ALEXANI	PEK I	Date 1-19-9	0	
	Pr	oceđure_	ETAL-07 Re	v <u> </u>	Date Issued <u></u>	1-15-89	
		EQUIPME Balance Thermome	eter CA	Libration 1 3304 0007 N/A	0. DATE I 3-25 8-16	-90 -90	
Sam	iple Desc	eription	SANDY GRAV	iec_		me_10(r	nin)
		iby 🕱 :	splitting (		: 🔲 stockp	lle	
B	(B) EFORE TI	est wr. <u>u</u>	AFTER TE	(A) ST WT. <u>AVA</u>	$\frac{B-A}{B} \times 100 = D$	√A % LOSS	
Sieve I Numbe	.	Sample Weight	Cumulative Wt. Retained (g)	% Retained	Cumulative %	Cumulative %	% Pass
N/A	2	4831.81	Ø	Ø	Ø	100	100
	11/2		155.42	3.2	3.2	96.8	94.8
	1		787-35	16.3	16.3	83.7	83.7
	3/4		1135.52	23.5	<i>23.</i> 5	74.5	76.5
	1/2		1575.78	32.6	32.6	67.4	67.4
	3/8		1842.23	38.1	38./	61.9	61.9
	#4		2293,06	47.5	47.5	52.5	52.5
	#10	4	2797.53	57.9	57.9	42.1	42.1
	#40	138 47	80.48	58.0	58.0	42.0	17.7
	#60	1	99.38	71.7	71.7		
	#100		110.08			28.3	11.9
-	£200			79.4	79.4	20.6	8.7
		Modules (FM	118.77 ) N/A	85.6	85,6	14.4	6-1
MATERI		<del></del>			36-83, Section	8.2)	
			NO. 200 SIE		Remarl	€S	
		ight of Sam	_	13867	HRAW	FINE GRADI	
		_	r Washing/Sieve		<u>SMAU</u>	L FLEUD SA	upue
		(D-E)/D> X		<del>-</del> <del>-</del>		:	
(	OPERATO:		URATELY AND AINED AND US Benny		ATED INSTRU		Т
L			,		A-	-8400-204(2-87)	i

#### **GRAIN SIZE ANALYSIS PLOT**



Date: 2-22-90

Date: 2-19-90

MW-2-1

# SOIL MOISTURE DATA SHEET

PROCEDURE NO. ETAL-14 REV. NO. Ø

THERMOMETER NO. <u>COC7</u> CALIBRATION DUE DATE <u>8-16-90</u>

L						
SAMPLE NO.	WET WT. + CAN	DRY WT. + CAN	CAN WT.	WET WT. SOIL	DRY WT. SOIL	% WATER
0-075	5515.36	5409.87	578.06	4957.30	4831.81	2.18
					· · · · · · · · · · · · · · · · · · ·	
			$\times$			<del></del>
						·*··
						<del></del>
			· · · · · · · · · · · · · · · · · · ·			
		<del></del>				
		·				
_/						
/					·	

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

TEST OPERATOR:

R.G. ALEXANDER

DATE 2-19-90

Westinhouse Hanford Company	CHAII	N OF CUSTODY
Company Contact Jon Lindbers	Tele	phone 6-5005
Sample Collected by Kim. Sing	. 1	9,30-90 Time NA
Sample Locations		
Ice Chest No. NA		Page No. WHC-N-386-5 pgs 6-7
Remarks		
Bill of Lading No	Offsite Property N	o
Method of Shipment Jerry Al	exander / Truck	
Shipped to 2101-11, 200		
3) MW-2-3, I plante 6	eg soil; Grain Size  Eg soil; Grain Size  Est: Grain  Athur,	Size Moistue sermeamite
	Chain of Possession	
Relinquised by	Received by: R.G. ALEXANDER	Date/Time:
Sill will hill Singlet	RG Alexand	2-6-90/0630
Relinquised by:	Received by:	Date/Time:
Relinquised by:	Received by:	Date/Time:
Relinquised by:	Received by:	Date/Time:



# SAMPLE ANALYSIS REQUEST

PART I: FIE	ELD SECTION		
Collector: _,	K.M. Singleton 0	ate Sample	ed:/-75,76,760 Time: NA hours
Company (	Contact Jon Lindber	5	Telephone ( ) 6-5005
SAMPLE NUMBER	NUMBER & TYPE OF SAMPLE CONTAINERS	TYPE OF SAMPLE	ANALYSIS REQUESTED
MW-2-1	1 plante bay	soil	Grain Size ( Mristule
MW 2-2	I plastic bog	sil	Grain Size & Moisture
MW-2-3	1 plaster brz	soil	Grain Size
MW 24	I pladic bas	Soil	Grain Size, A. limits E permeameter
Field Inform	mation MW-2 a	salso	contained in a stainles
Special Ha	ndling and/or Storage		
PART II: L	ABORATORY SECTION		
	<u>y</u>	Title	Date
	iquired	· · · · · · · · · · · · · · · · · · ·	
Indicate Use Ba	: Whether Sample is Soil, : ck of Page for Additional	Sludge, Wa Information	ter, Etc. 1 Relative to Sample Location.

RADIATION RELEASE	RADIATION RELEASE
Released By Operational Health Physics	Released By Double 1-26-90
Remarks < D an State of Mag.	Remarks South State of Man
54-3000-022 (09/98\	10000
RADIATION RELEASE  Date 1-26-90  Released By Operational Health Physics  Remarks On Bullium 1	SURVEYED BY RM FOR SHIPMENT  Dose rate – side of container  Max. dose rate through the container  Dose rate to handle container  Dose rate at nearest approach on conveyancemr-hr  External contamination
14W-2-3 54-3000-022 (09/88)	SWP and RSR required Yes   No & SURVEYED BY VE Baldwin (aC670 DATE 1/30/90 MW-2-4 546800-009(1-66)

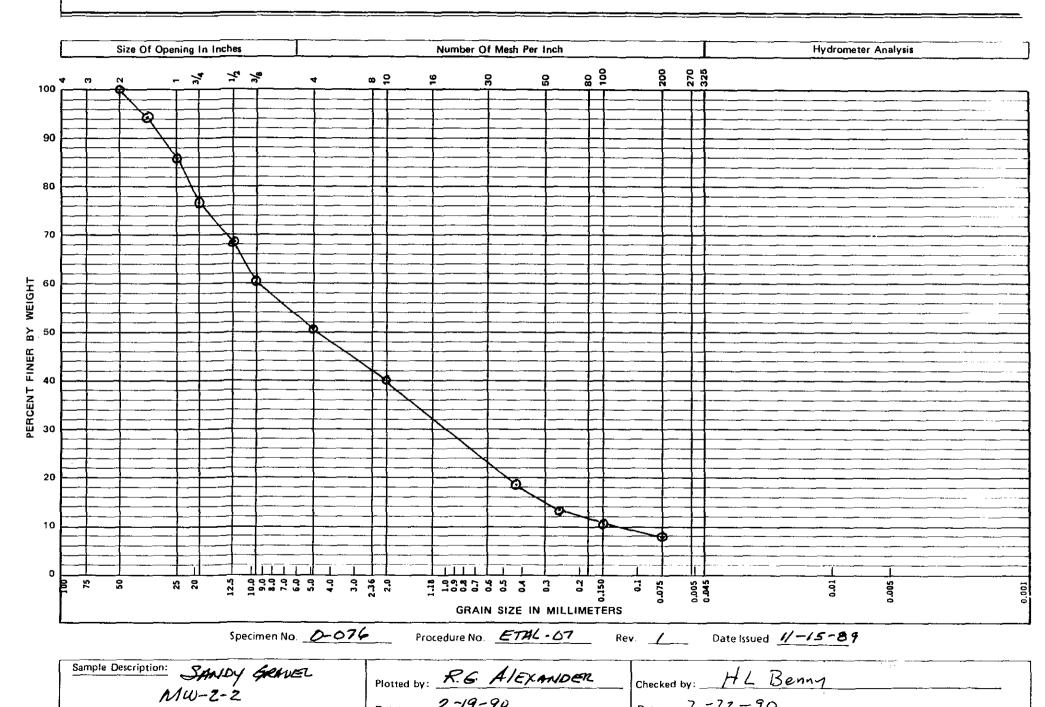
Ç.

# TEST REQUEST FORM

Sample/Specimen No	.0-076	Cost Code/Work Order No. ED 332
Requested By: Org	1. <u>81232</u>	Person J. LIND BEEG Date 2-19-90
Test Requested	No. of Samples	Test Lab Information (Instruction Used)
SLEVE ANALYSIS		BTAL-07
HYDROMETER		ETAL-07 (EF REQ)
MOISTURE		ETAC-14
NIA	N/A	NIA
	•	
Remarks FIED S	AMPLE	Received By: R. G. ALEXANDER Date 2-6-90
MW-Z-2		Approved By: R-G ALEXANDER Date 2-19-9

			SIEVE ANAI	YSIS DAT	A SHEET		
	Sampl	e ID 0-	076		Page/	of <u>/</u>	
	Te	sted By	R.G. Alexai	YDEK I	Date_ 2-19-0	90	
	Pr	ocedure_6	<i>574L-07</i> Re	v <u> </u>	Date Issued <u>/</u>	1-15-89	
		Balance	NT ITEM CAI	3304	3-25	-90	
		Thermome	<u> </u>	0007 N/A	8-16- N/A		
Sampl		_	SANDY GRAV		- Sieve Tir		min)
		by 2	splitting )		□ stockp	ile	<del></del>
BEF	(B) ORE TI	est wt. 4	A AFTER TE	(A) ST WT. 4/4	$\frac{B-A}{B}X \ 100 = 2$	VIA % LOSS	
Sieve ID Number	Sieve Size	Sample Weight	Cumulative Wt. Retained (g)	% Retained	Cumulative % Retained	Cumulative ? Pass	7 7 Pass
N/A	2	4757.64	Ø	Ø	9	100	100
	11/2		270.28	5.7	5.7	94.3	94.3
	1		674.42	14.2	14.2	858	85.8
	3/4		1/15.97	23.5	23.5	76.5	74.5
	1/2		1620.26	34.1	3/.4	68.6	686
	3/8		1891.39	39.8	39.8	60-2	60.2
	#4	<u> </u>	2360,33	49.6	49.6	50.4	50.4
	#10	4757.64	2854.00	60.D	600	40.0	40.0
	#40	126.01	67.44	53.6	63.5	44.5	18.6
	#60		<i>83.56</i>	66.3	64-3	33.7	13.5
	#100		92-46	73.4	73.4	36.4	10.6
*	#200		101.44	80.5	80.5	19.5	7.8
	Finess N	Modules (FM	)_N/A_(	See ASTM C 1:	36-83, Section		<del></del>
MATERI	als fin	IER THAN	NO. 200 SIE	VE BY WASH			
			sing a 200 Sleve		Remark		40.41
		ight of San		136.01 "		FINE GR	<del>4</del> D/AG
E=Dry Wei		Sample After (D-E)/D> X	r Washing/Sieve	101.44 <sub>11</sub>	SAM		
							<del></del>
OP	ERATO		URATELY AND AINED AND US			MENTS,	3T
	.ver.	-y_ <u></u>			<del></del>	-6400-204(2-87)	

#### **GRAIN SIZE ANALYSIS PLOT**



Date: 2-22-90

Date: 2~/9-90

## SOIL MOISTURE DATA SHEET

PROCEDURE NO. ETAL-14 REV. NO. Ø

THERMOMETER NO. 0007 CALIBRATION DUE DATE 8-16-90

SAMPLE NO.	WET WT. + CAN	DRY WT. + CAN	CAN WT.	WET WT. SOIL	DRY WT. SOIL	% WATER
0-076	5426.65	5341.64	584.00	48 41.55	4757.64	1.76
					Page 15	
		/				

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

TEST OPERATOR:

R.G. ALEXANDER

DATE 2-19-90

Westinhouse Hanford Company	CHAII	N OF CUS	TODY
Company Contact Jon Lindberg	Tele	phone	6-5005
Sample Collected by K.M. Single		9.30-90	Time <u>NA</u>
Sample Locations //// Fm-/			
ice Chest No. NA		Page No.	WHC-N-386-5 pgs 6-7
Remarks			
Bill of Lading No	9 Offsite Property N	o/	A
Method of Shipment Jerry Ale		<u>-</u>	
Shipped to 2101-11, 200			
1) MW-2-1, /plaste bag s	Sample Identification  No. 1705 + Grain & 1701	stere	
2) MW-2-2, /plastic ka	y soil; Grain Size &	Moist	ino Testo
,	g soil; Grain Size		
37.110 - 37 17-10-50	) 300 , 100		
4)MW-2-4 1, planted de	testi Grain	Size 11	Moisture, permeamite
		lines	
<del></del>	<del></del>	<del></del>	
	<del></del>	<u> </u>	
	<del></del>	<del></del>	
	<del></del>	<del></del>	
	<del></del>	· · · · · · · · · · · · · · · · · · ·	
<del></del>	<del></del>	<del></del>	
		····	
	Chain of Possession	·	
Relinquised by?	Received by: R.G. ALEXANDER	Date/	Time:
FHRault BM. Sinfet	R.G Alexand	2-	4-90/0630
Relinquised by:	Received by:	Date/	<del></del>
Relinquised by:	Received by:	Date/	Time:
Relinquised by:	Received by:	Date/	Time:

Westingh	ouse
Hanford	Company
	Westingh Hanford

# SAMPLE ANALYSIS REQUEST

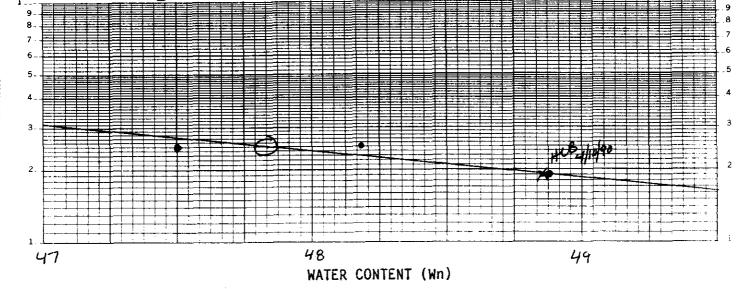
Collectors <u>A</u>	M.Singleton	Date Sample	d:/ <i>-35,26,97,3</i> 0	Time: <u>NA</u> hours
Company Co	ontact Ton Lind	bers	Telephone (	1 6-5005
SAMPLE NUMBER	NUMBER & TYPE OF SAMPLE CONTAINERS	TYPE OF SAMPLE	ANALYSIS	REQUESTED
mw.21	1 plante bay	Soil	Grain Size	Musture
MW 2-2	1 plante bog	sel	Grain Size	c Moisture
nw-2-2	I planter br	s soil	Grain Size	2
MW 24	I plade by	s soil	Grain Size	A. Cimits
		<u> </u>		
steel	diener		contained a	n o stainke
beciai Have	dling and/or Storage			
	BORATORY SECTION			
-	ulred	Title	<del></del>	Date

Released By Operational Health Physics  Remarks D By Illian Date Date Date Date Date Date Date Date	RADIATION RELEASE	RADIATION RELEASE
Remarks Surveyed by Surveyed b	Released By	
RADIATION RELEASE  SURVEYED BY RM FOR SHIPMENT  Dose rate – side of container  Max. dose rate through the container  Max. dose rate through the container  Dose rate at nearest approach on conveyance  External contamination  SWP and RSR required  SURVEYED BY RM FOR SHIPMENT  Dose rate - side of container  Dose rate at nearest approach on conveyance  mr-hr  External contamination  SWP and RSR required  SURVEYED BY TE BOOK USE	Remarks S) on William of Megri-	Operational Health Physics*
Dose rate – side of container  Max. dose rate through the container  Dose rate at nearest approach on conveyancemr-hr  External contamination  SWP and RSR required Yes No  SURVEYED BY	·	
Dose rate – side of container  Max. dose rate through the container  Dose rate to handle container  Dose rate at nearest approach on conveyance mr-hr  External contamination  SWP and RSR required  Yes  No  SURVEYED BY  TERNOLULE  TO MITHER  No  SURVEYED BY  TERNOLULE  TO MITHER  TO MAX. dose rate through the container  Max. dose rate through the container  To mr-hr  Max. dose rate at nearest approach on conveyance mr-hr  SWP and RSR required  Yes  No  SURVEYED BY  TERNOLULE  TO MITHER  TO MITHER  NO  SURVEYED BY  TERNOLULE  TO MITHER  TO MITHER	RADIATION RELEASE	SURVEYED BY RM FOR SHIPMENT
SWP and RSR required Yes No 80  Surveyed by VE Bolowy Con No 80  Surveyed by VE Bolowy Con No 80	Released By Operational Health Physics	Max. dose rate through the container  Dose rate to handle container  Dose rate at nearest approach on converse
	bag.	SWP and RSR required Yes No SURVEYED BY VE BOOK NO SURVEYED BY VE BOOK NO SURVEYED AND A COLOR

N

### PLASTIC INDEX SOILS DATA SHEET

Sample No. <u>O-076</u>	PageofZ_
Test Operator HUBenny	Date <u>4/10/90</u>
Thermometer No. 0007	_ Calibration Date <u>8/16/90</u>



Liquid Limit (LL) 47.84 Graph

Plastic Limit (PL) 39.67 (Avg.)

Liquid Limit (LL) <u>NA</u> One Point

Moisture (PL) 40.81% 40.43% 37.77%

Moisture (LL) 47.84 %

Plastic Index (PI)\* 8.17

\*PI = LL - PL

Remarks\_

ALL DATA ARE ACCURATELY AND COMPLETELY RECORDED. AND HIGH THE TEST OPERATOR WAS APPROPIATELY TRAINED AND ULITIZED CALIBRATED TEST INSTRUMENTS. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THIS DATA.

# SOIL MOISTURE DATA SHEET

PROCEDURE NO. ETAL-018 REV. NO. Ø

THERMOMETER NO. 0007 CALIBRATION DUE DATE 8/16/90

SAMPLE NO.	WET WT. + CAN	DRY WT. + CAN	CAN WT.	WET WT. SOIL	DRY WT. SOIL	% WATER
0-076-1	16.55	15.04	11.34	5.21	3.70	40.81
~ 7	13.91	13.15	11.27		1.88	40.43
	15.90	14.68	11.45		3.23	37.77
				Average	% Water	39.67
0-076-4	23.96	1 <b>9.8</b> 7	11.26	12.70	8.61	47.50
5	63.07	59.19	51.25	11-842	7.94	48.87
-6	63.85	59.87	51.61	12.24	8.26	48.18
					-	
					· · · · · · · · · · · · · · · · · · ·	
	L			<u>t</u>	l	

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

TEST OPERATOR: HBenny

Blows 25

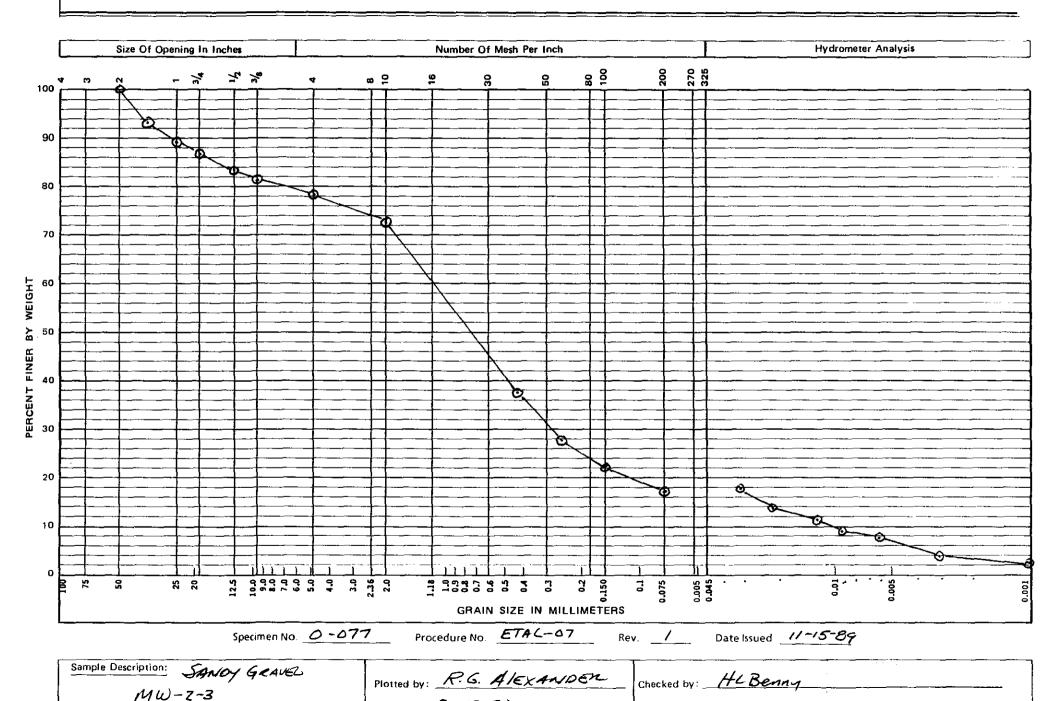
> 19 25

# TEST REQUEST FORM

Sample/Specimen	No. 0-077	Cost Code/Work Order No. ED 332
Requested By:	Org. <u>81232</u>	Person J. LIND BERG Date 2-19-90
Test Requested	No. of Samples	Test Lab Information (Instruction Used)
SEVE ANALYSIS		ETAL-07
Horoverer		ETAL-07 (DEREQ)
N/A	N/A	NA
NA	N/A	NIA
	Samore	a company and a company
Remarks FIELD	SAMPLE	Received By: R.G. ALEXANDER Date 2-6-90
		Approved By: RG NEXANDER Date 2-19-9

	SIEVE ANALYSIS DATA SHEET								
	Sampl						e		
	Tested By R.G. A LEXANDER Date Z-19-90								
	Procedure ETAL-07 Rev   Date Issued 11-15-89								
		EQU Balar		NT ITEM CAI	IBRATION N <b>330</b> 4	10.	0 37AU	UE -9 o	
		Ther	mome		<i>c</i> 007		8-16-	90	
	-		N/H		N/A	<del></del>	N/A		
Sampl	∟ le Desc	ripti	on •	SANDY GRAY	/EL		Diama Min		
									amj
	(B)			plitting [	(A)				
BEF	ORE TE	EST W	7T.N/	AFTER TE	ST WT. NA	T		· · · · · · · · · · · · · · · · · · ·	T
Sieve ID	Sieve		nple	Cumulative Wt.	% Retained	Cun	nulative %	Cumulative %	% Pass
Number	Size	Weig	ght	Retained (g)		Re	etained	Pass	
N/A	2	176	9.74	Ø	Ø		ø	100	100
	11/2			12145	6.9		6.9	93.1	93.1
	1	1 189.97 10.7 16.7 89.3 89.3					89.3		
	3/4		235.98 13.3 13.3 84.7 86.7				86.7		
	1/2 296.39 16.7 16.7 83.3 88.3								
	3/8 333.66 18.9 18.9 81.1 81.1								
	#4 386.32 21.8 21.8 78.2 78.2						78.2		
	#10	1769	.74	481.67	27.6	27	1.6	72.4	72.4
	# 40	162	হে:১	78.29	48.2	4	8.2	51.8	37.5
	#60			100.20	61-7	6	1.7	38.3	21-7
	#100			112.60	69.4	6	9.4	30.6	22.2
Y	#200 1 124.48 76.7 76.7 23.3 16.9						16.9		
	Finess l	Modul	es (FM	) N/A	See ASTM C 1	36-83	, Section	B.2)	
MATERI	ALS FI	VER 7	THAN	NO. 200 SIE	VE BY WASE	IING			
C=Percen	C=Percentage of Material Passing a 200 Sieve 233 % Remarks								
D=Original Dry Weight of Sample  162-27 g  WASH FINE GRADING  SHALL FIETO									
E=Dry Weight of Sample After Washing/Sieve/24.48g									
$C = \langle (D-E)/D \rangle \times 100$									
				URATELY AND					T
Ch	ecked	By_/	HLB	AINED AND U Cary	OBD CALIDK	AIED		MENTS <b>2-22-70</b>	
								-8400204(2-87)	

#### **GRAIN SIZE ANALYSIS PLOT**



Date: 2-22-90

Date: 2-19-90

## SOIL MOISTURE DATA SHEET

PROCEDURE NO. ETAC-14 REV. NO. Ø

THERMOMETER NO. OOO7 CALIBRATION DUE DATE 8-16-90

544	WET WT. + CAN	· · · · · · · · · · · · · · · · · · ·		1	1	
SAMPLE NO.	WEI WI. T CAN	DRY WT. + CAN	CAN WT.	WET WT. SOIL	DRY WT. SOIL	% WATER
0-077	2558.5z	2359.13	589.39	1969.13	1769,74	11.27
		, , , , , , , , , , , , , , , , , , , ,				
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			$\times$			
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			<del></del>			-
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ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

R.G. ALEXANDER TEST OPERATOR:

DATE 2-19-90

						· <u> </u>	
HYDROMETER ANALYSIS DATA SHEET							
Sample II	0-	-077		Pa	ge/_ of/	·	
		1		Date 3-1	9-90		
		Procedure ETA	C -07 Rev / D	ate Issued 11-15-89		}	
		EQUIPA	MENTITEM	NO.	LIBRATION DUE DATE	}	
		Hydrometer			2-16-91		
		Balance Thermomete	r/Thermocouple		-25-90 -9-91		
! 				· · · · · · · · · · · · · · · · · · ·			
		of Sample		HYGROSCOP	C MOISTURE C	ONTENT	
	-		72.4 (%)	Wt. Container + Air	Dry Soil	N/A	g)
Hygroscopic Correction Factor			Wt. Container + Oven Dry Soil (g)				
WEIGHT OF SAMPLE			Wt. Container	· N/A	(	g)	
Wt. Con	Wt. Container + Soil //A (g)		Water Content (%)				
Wt. Container(g)				DE844 DVC			
Wt. Soil	Wt. Soil <u>55.62</u> (g)		<u>55.62</u> (g)	REMARKS			
				TUBE B	<del></del>	<del></del>	
let Page	COMPOSITE CORRECTION  1st Reading 5 at 23.8 °C			w=	<del></del>		<del></del>
	2nd Reading 6 at 33.4 °C						<del></del>
ZIIQ Nei	Ziid Reading 6t 7			PAN #9 117.55			<del></del>
				· · · · · · · · · · · · · · · · · · ·		<del></del>	<del></del>
 	Clock	Elapsed	Hydrometer	Hydrometer with	Temp.	Soil in	Particle
Date	time	time (min)	reading	composite correction	(*C)	suspension (%)	diameter (mm)
3-19	0832	2.0	19	14	24.0	17.9	0.032
3-19	0835	5.0	16	//	24.1	14.0	0.021
3-19	0845	15.0	14	9 (3)	24.1	11.5	0.012
3-19	0900	30.0	/2	7	24.0	8,9	0.009

					,		
3-19	0832	2.0	19	14	24.0	17.9	0.032
3-19	0635	5.0	16	//	24.1	14.0	0.021
3-19	0845	15.0	14	9 (3)	24.1	11.5	0.012
3-19	0900	30.0	/2	7	24.0	8,9	0.009
3-19	0930	60.0		6	23.8	7.7	0.006
3-19	12.40	250.00	8	33	24.1	3,8	0.003
3-20	0830	1,440.0	7	2	23.3	2.6	0.001

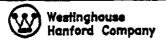
Formulas and Tables used to calculate percent Soil in suspension, particle diameter and hygroscopic correction factor are found in ASTM D422.

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND UTILIZED CALIBRATED TEST INSTRUMENTS AS INDICATED ABOVE. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THE ABOVE DATA.

# **SPECIFIC GRAVITY OF SOILS DATA SHEET**

Test	Operator R.G. ALEXANDER			3-5-90	
	EQUIPMENT ITEM	NO.		DATE DUE	
Bai	ance	3304		3-25-90	
Ov	en Thermometer	0007		8-16-30	
The	ermometer	0002	<del></del>	2-9-91	
Pyc	cnometer	2554	······································	N/A	
Wetti	ing Agent ''Q" WATER				
	DETERMINATION NO.		1	2	3
	Drying Container No.		NA	N/A	NA
	Wt. Container + Oven Dry Soil, ± 0.01g		NIA		
	Wt. Container, ± 0.01g	1	N/A	·	
$W_{o}$	Wt. Oven Dry Soil, g		40 .00		
	Pycnometer No.		2554		
	Wt. Pycnometer, g		13572		
W <sub>a</sub>	Wt. Pycnometer + Wetting Agent, g		387.12		
W <sub>b</sub>	Wt. Pycnometer + Wetting Agent + Soil, g		412.62		
	Temperature, T <sub>x</sub> at W <sub>b</sub> , °C		24.40		
G <sub>w</sub>	Specific Gravity of Wetting Agent at T <sub>x</sub>		<u>1.00</u>		
G <sub>t</sub>	Specific Gravity of Soil at T <sub>x</sub>		2.76		
G,	Specific Gravity of Soil at 20°C		<u>2.75</u>	1	<b></b>
G <sub>t</sub> =	$\frac{G_{\mathbf{w}^{\mathbf{a}}} \mathbf{w}_{\mathbf{o}} \mathbf{w}_{\mathbf{o}}}{\mathbf{w}_{\mathbf{o}} + (\mathbf{w}_{\mathbf{a}} - \mathbf{w}_{\mathbf{b}})}$				
γ <sub>w</sub> = '	Unit Weight Of Water (g/cc)		Average Spe	cific Gravity At 20°c	2.75
K valu	es found in ASTM D854-58, Table 1	L.	· · · · · · · · · · · · · · · · · · ·		
*NOTE	E G <sub>s</sub> = G <sub>t</sub> When Test Run at 20 ℃				
RAINE	QUIRED DATA ARE ACCURATELY AND COMF ED AND UTILIZED CALIBRATED TEST INSTRUM FOLLOWED TO PRODUCE THE ABOVE DATA.	MENTS AS IND	RDED. THE TEST C	PPERATOR WAS APPROP PPROVED TEST PROCEDU	RIATELY JRES :

Westinhouse Hanford Company	c	HAIN OF CUSTODY
Company Contact Jon Lindb	ers	Telephone 6-5005
Sample Collected by <u>Kim. Sin</u>	$\mathcal{O}(1)$	76,29,30-90 Time NA
Sample Locations	MWZ	
Ice Chest No		k and Page No. WHC-N-30 6-5 pgs 6-7
Remarks		
Bill of Lading No.	NA Offsite Prope	rty No
Method of Shipment Jerry	Alexander / Truck	
Shipped to 2101-11, 2	OBE	
1) MW-2-1, /plaste bo	Sample Identification  g soil, Test Grain of	Mister
2) MW-2-2, /plaste	pag soil; Grain Size	E Moisture Tests
3) MW-2-3, 1 plaste	bas soil; Grain Si	ze Test
4) MW-2-4 1, plaste	l kas soil; Test. Gr	ain Size Moisture, permeamete
	At her	g. limets
· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	Chain of Possession	
Relinquised by	Received by: R.G. ALEXANDE	Date/Time:
JHHaufth HM Sint	Ot R.C. Alexand	2-6-90/0630
Relinquised by:	Received by:	Date/Time:
Relinquised by:	Received by:	Date/Time:
Relinquised by:	Received by:	Date/Time:



## SAMPLE ANALYSIS REQUEST

PART I: FIE	LD SECTION	·				
Collector: _	K.M.Singleton o	ate Sample	ed:/-15,16,130 Time: <u>NA</u> hours			
Company (	Contact Jon Lindberg	5	Telephone ( ) 6-5005			
SAMPLE NUMBER	NUMBER & TYPE OF SAMPLE CONTAINERS	TYPE OF SAMPLE	ANALYSIS REQUESTED			
MW-2-1	1 plantie bay	Soil	Grain Size ( Mristine			
MW 2-2	I plante bog	sal	Grain Size & Moisture			
MW-2-2	I plastee bog	soil	Grain Size			
MW-24	I place has	Soil	Grain Size, A. Comits			
		·				
<u> </u>						
Field Inform	ngtion ** MW-2 &	also	contained in a stainters			
Special Hai	ndling and/or Storage					
PART II: L	ABORATORY SECTION					
	Received by Title Date					
	quired	<del></del>				
Indicate  Use Ba	Whether Sample is Soil, S ck of Page for Additional i	Siudge, Wa Information	ter, Etc. . Relative to Sample Location.			

RADIATION RELEASE	RADIATION RELEASE
Released By Date	Released By
Remarks Som Statistics of May 2-1	Operational Health Physics'  Remarks Sulface Country C
54-3000-022 (09/98)	MW-2-2 54/3000-022 (09/88
RADIATION RELEASE	SURVEYED BY RM FOR SHIPMENT
Released By Operational Health Physics	Dose rate side of container  Max. dose rate through the container  Dose rate to handle container  Dose rate at nearest approach on conveye
Remarks Don Butsedo 97  MW-2-3 54-3000-022 (09/88)	SWP and RSR required Yes \( \text{No.} \text{No.} \text{No.} \text{SURVEYED BY \( \text{TE.} \) \( \text{Baldwin} \) \( \text{C670} \)  DATE \( \text{130} \) \( \text{90} \)
	MW-2-4 548800-008(1-86)

# TEST REQUEST FORM

Sample/Specimen No	0-078	Cost Code/Work Order No. <u>ED</u> 332
Requested By: Org	1. <u>80Z32</u>	Person J. UNDBEEG Date 2-14-9a
Test Requested	No. of Samples	Test Lab Information (Instruction Used)
Hyo. COMOUCTIVITY		ETAL-09
ATTERBERG LIMITS	1	ETA(-18
N/A	MIA	N/A
~/A	<u> </u>	N/A
Remarks FIEUD S	"AMPLE	Received By: R. Alexander Date 2-6-90
Mw-2-4		Approved By: RG Alexander Date 2-14-9
	<del></del>	Approved by: No Alexander Date 27,4-7

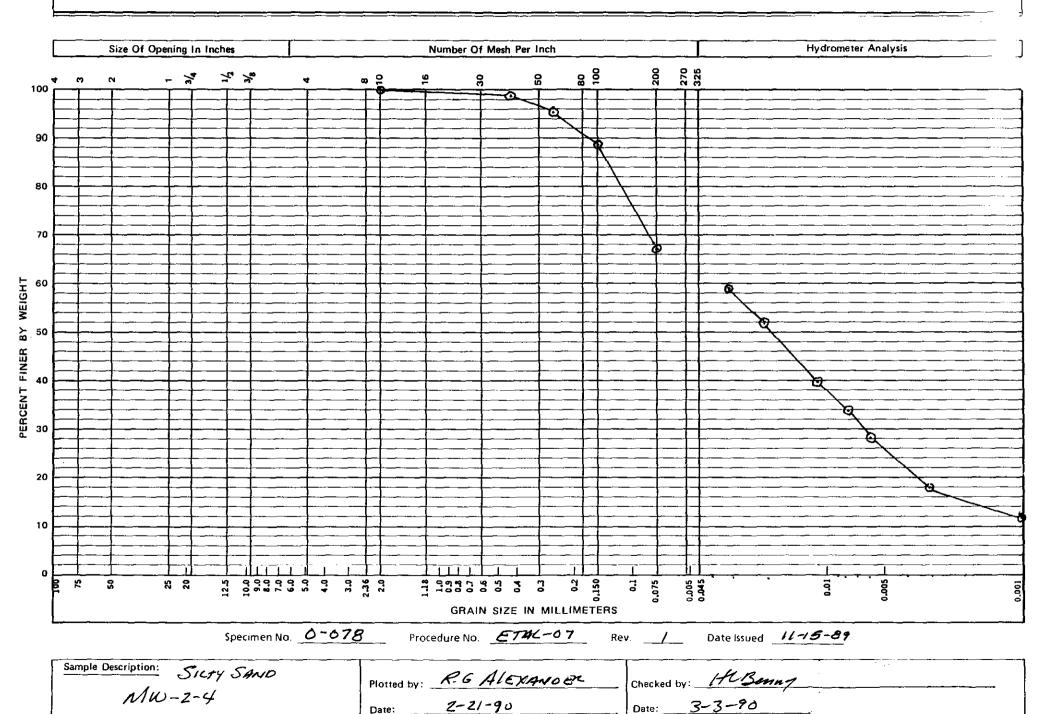
Page _ i _ of _ i  Tested By R.G Alexander _ Date 2-20-90  Procedure ETAL-07 Rev   Date Issued 11-15-89  EQUIPMENT ITEM CALIBRATION NO. DATE DUE Balance
Procedure ETAL-07 Rev   Date Issued N-15-89  EQUIPMENT ITEM CALIBRATION NO. DATE DUE Balance 3304 3-25-9. Thermometer Cool 6-16-9.
EQUIPMENT ITEM CALIBRATION NO. DATE DUE Balance 3304 3-25-9. Thermometer Cool 8-16-9.
Balance         3304         3-25-9°           Thermometer         0001         8-16-9°
Thermometer Ocol 8-16-90
Sample Description SANSY SILT Sieve Time (min)
reduced by A splitting  quartering  stockpile
BEFORE TEST WT. W/A AFTER TEST WT. W/A B X 100 = W/A % LOSS
Sleve ID Sieve Sample Cumulative Wt. % Retained Cumulative % Cumulative % % Pass Number Size Weight Retained (g) Retained Pass
N/A 1 1 1 1
<del></del>
#·4 98.53 Ø
* 10   Ø Ø 160 100
40 1.67 1.7 1.7 98.3 983
460 4.51 4.6 4.6 95.4 95.4
11.28 11.4 11.4 88.6 88.6
*Zeo   32.40   32.9   32.9   67.1   67.1
Finess Modules (FM)
MATERIALS FINER THAN NO. 200 SIEVE BY WASHING
C=Percentage of Material Passing a 200 Sieve Remarks
D=Original Dry Weight of Sample 98.53 g WASH GRADING
E=Dry Weight of Sample After Washing/Sieve 32.40 g
$C = \langle (D-E)/D \rangle \times 100$
ALL DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST
OPERATOR WAS TRAINED AND USED CALIBRATED INSTRUMENTS Checked By #CRenny Date 3-3-10
A-6400-204(2-87)

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### **GRAIN SIZE ANALYSIS PLOT**



# SOIL MOISTURE DATA SHEET

PROCEDURE NO. <u>E74C-14</u> REV. NO. <u>Ø</u>

THERMOMETER NO. <u>O007</u> CALIBRATION DUE DATE <u>8-16-90</u>

Sample no.	WET WT. + CAN	DRY WT. + CAN	CAN WT.	WET WT. SOIL	DRY WT. SOIL	% WATER
0-078	248.94	214.76	116.23	132,71	98.53	34.69
						<del></del>
						<del></del>
·						
			$\times$			
		/				
					·	
<del>-/</del>						

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

TEST OPERATOR:

R.G ALEXANDER

DATE 2-21-90

		ŀ	HYDROMETER AN	IALYSIS DATA SHEET			
Sample II		0-078		Page	<u>l</u> of <u>l</u>		
		Tested By R. G	ALEXANDER	Date 3-19	-90		
				ate Issued 11-15-89			
•		50, 110	SEAST STERA		BRATION DATE	1	
		1	IENT ITEM	1000 2	<del></del>		
		Balance		3304 3-	25-90		
		<u>Thermomete</u>	r/Thermocouple	0002 2-	9-91		
Specific	gravity o	of Sample2	2.69	LIVEROSCODIC	MOISTURE		
% Passi	ng No. 10	Sieve	(%)	HYGROSCOPIC			_1
		ection Factor		Wt. Container + Air Dr			
• •	,			Wt. Container + Oven	7		_
	_	VEIGHT OF SAM		Wt. Container			-
Wt. Cor	ntainer +	<del></del>	<i>N/A</i> (g)	Water Content	N/A	(	%)
ື Wt. Cor	ntainer	<del></del>	<u>√/A</u> (g)	RE	MARKS		
Wt. Soil		· · · —	67.11 (g)		_ <del></del>		
m·	COM	MPOSITE CORRE	CTION	TUBE A			
n tet Rose		-		ω=			:
_ 2nd Ke	aging	at	23.4°c	Pan + 7 116.11			
							<del></del>
VI.							<del></del>
Date	Clock	Elapsed time	Hydrometer reading	Hydrometer with composite correction	Temp. (°C)	Soil in suspension	Particle diameter
<u> </u>		(min)			<del> </del>	(%)	(mm)
3-19	0820	2.0	45	40	24.0	59.0	0.027
3-19	0825	5.0	39	34	24.1	50.2	0.018
3-19	0837	15.0	32	27	24./	39.8	0.011
3-19	0848	30.0	28	23	24.0	33.9	0.008
3-19	0918	60.0	24	19	23.8	28.0	0.006
3-19	1228	250.00	17	12	24.2	17.7	0.003
3-20	0818	1,440.0	/3	8	23.4	11.8	0.001
Formulas	and Tables	used to calculate per		rticle diameter and hygroscopic co	rection factor a		TM D422.
	ALL REOU	IRED DATA ARE ACC	URATELY AND COMPLETE	LY RECORDED. THE TEST OPERATO	OR WAS APPRO	PRIATE! Y	[
	TRAINED	AND UTILIZED CALIB	RATED TEST INSTRUMENT	S AS INDICATED ABOVE. APPROVE	D TEST PROCED	URES WERE	
	Checked 8	(111)	lyen	Date <u>3-21</u>	-90		

### SPECIFIC GRAVITY OF SOILS DATA SHEET

Specimen/Sample No	078	Page 1 of 1 3-6-90			
Test Operator R.G. AIE	XANDER	3-6-90			
EQUIPMENT ITEM	NO.	DATE DUE			
Balance	3304	3-25-90			
Oven Thermometer	0007	8-16-90			
Thermometer	0002	2-9-91			
Pycnometer	2554	NIA			

1 2 3 **DETERMINATION NO.** N/A NA **Drying Container No.** Wt. Container + Oven Dry Soil, ± 0.01g Wt. Container, ± 0.01g NA W, Wt. Oven Dry Soil, g 40 .00 2554 Pycnometer No. 135 .72 Wt. Pycnometer, g Wt. Pycnometer + Wetting Agent, g 387 .02 W<sub>a</sub> 412.23  $W_b$ Wt. Pycnometer + Wetting Agent + Soil, g Temperature, T<sub>x</sub> at W<sub>b</sub>, °C 23,2 0  $G_{\mathbf{w}}$ Specific Gravity of Wetting Agent at T<sub>x</sub> 1.00 Specific Gravity of Soil at T<sub>x</sub> G, 2.62 Specific Gravity of Soil at 20°C 2.69

$$G_t = \frac{G_{w^*} \gamma_{w^*} W_o}{W_o + (W_a - W_b)}$$

γ<sub>w</sub> = Unit Weight Of Water (g/cc)

\*G, = K.G.

Average Specific Gravity At 20°c

2.69

K values found in ASTM D854-58, Table 1

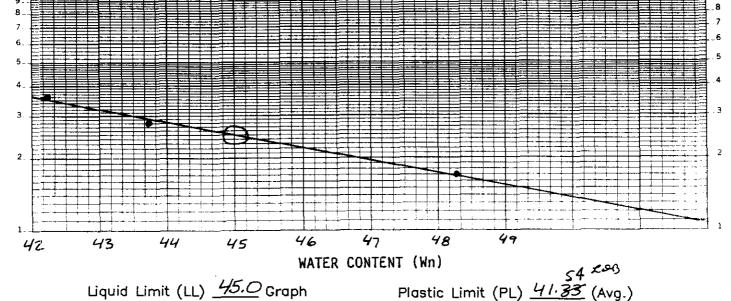
\*NOTE G, = G, When Test Run at 20 °c

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND UTILIZED CALIBRATED TEST INSTRUMENTS AS INDICATED ABOVE. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THE ABOVE DATA.

Checked By HBenny

PLASTIC INDEX SOILS DATA SHEET

Sample No. <u>0-078</u> Page \_\_\_\_\_ of \_\_\_\_ Test Operator HCBenn1 Date  $\frac{4/9/90}{90}$  Thermometer No. 0007 Calibration Date  $\frac{8/16/90}{90}$ 



Liquid Limit (LL) 45.0 Graph

Liquid Limit (LL) <u>NA</u> One Point Moisture (PL) <u>41.79</u> % <u>41.09</u> % <u>41.75</u> %

Moisture (LL) 45.0 %

NUMBER OF DROPS

Plastic Index (PI)\* 3.67

\*P! = LL - PL

Remarks\_

ALL DATA ARE ACCURATELY AND COMPLETELY RECORDED. IN A HINGO THE TEST OPERATOR WAS APPROPIATELY TRAINED AND ULITIZED CALIBRATED TEST INSTRUMENTS. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THIS DATA.

# SOIL MOISTURE DATA SHEET

PROCEDURE NO. ETAL -018

REV. NO.

THERMOMETER NO. 0007 CALIBRATION DUE DATE 8/16/90

	SAMPLE NO.	WET WT. + CAN	DRY WT. + CAN	CAN WT.	WET WT. SOIL	DRY WT. SOIL	% WATER
	0-078-1	24.45	23.05	19.70	4.75	3 <i>.</i> 3 <i>5</i>	41.79
	-2	23.04	21.98	19.40	3.64	2.58	41.09
	-3	26.61	24.56	19.65	6.96	4.91	41.75
Blows					Avi	e, % Water	41.335
28	0-078-4	32.94	28.95	19.82	13.12	9.13	43.76
36	-5		28.94	19.79	13.01	9.15	42.19
17	-6	34.80	29.92	19.81	14.99	10.11	48.27
					Av	e. % Water	
					<del> </del>		
				· · · · · · · · · · · · · · · · · · ·			
		<u></u>					
				<u> </u>			
	1						

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

TEST OPERATOR:

DATE

Test Operator R. G. A. IEXA	NDER	Date 2-/5-90
EQUIPMENT ITEM	<u>No.</u>	DATE DUE
Balance	3304	3-25-90
Oven Thermometer	7000	8-16-90
Thermometer	NIA	N/A
Thermocouple		
Temperature Controller		
Pressure Gauge		
Pressure Transducer		
Pressure Transducer		
Back Pressure Gauge		
Pressure Transducer		
Pressure Transducer	1	
Catipers	5623	8-16-90
Load Frame	4/4	<u>~\/A</u> _
Data Logger		
		[
<u> </u>		_
N/A	1	
Immediate (Oser) Calibra	tion Performed. (Documentation	10 Be Attached)
Sa	mple Preparation	
PARTICLE SIZE (Sieve Mesh Range)		WEIGHT
1/A To N/A		× 1/4
10 N/P		<u>N/A</u> *
то		*
То		%
То		- %
То		<u> </u>
То	Total	100 %
OTHER COMPONENTS		
4(4	·	N/A %
	***************************************	
		<u> </u>
	Total	100 %
<del></del>		OPERATOR WAS APPROPRIAT

(7)

### SAMPLE PREPARATION

### Determine Weight of Samples in Container

	T
Container No.	28
Wt. of Sample + Container, g	248.94
Wt. of Container, g	116.23
Wt. of Sample, g	132,71

## Determine the Water Content of the "Air Dry" Sample

Container No.	28
Wt. Container & Wet Soil (A), g	248.94
Wt. Container & Dry Soil (B), g	214.76
Wt. of Water, g	34.18
Wt. of Container (C), g	116,23
Wt. of Dry Soil, Ws, g	98.53
Water Content (W), %	34.69

$$W = \left(\frac{A \cdot B}{B \cdot C}\right) 100$$

SAMPLE COMPONENT	SPECIFIC GRAVITY, G	LABORATORY NOTEBOOK DATA LOCATION
N/A·	N/A	4/4
NA	NA	NIA
N/A	Mla	×/A

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY
TRAINED AND UTILIZED CALIBRATED TEST INSTRUMENTS AS INDICATED ABOVE. APPROVED TEST PROCEDURES
WERE FOLLOWED TO PRODUCE THE ABOVE DATA.

Checked By HLBenny

Date 3-3-90

### SAMPLE COMPACTION

Compaction Method Static N/A Tamping N/A

STATIC Load Applied, g/ Layer length, cm	Layer 1	N/A	11	N/A
or	2	_ 1	12	L
TAMPING I swer I couth com	3		13	
Layer Length, cm	4		14	
	5		15	
	6		16	
Total No. of Layers N/A	7		17	
INTACT SAMPLE CUT	8		18	
FROM 4" STEEL LIVER	9		19	
1,030	10	4	20	
Tamper Foot Diameter cm		NA		
Tamper Applied Load, g		N/A		
Sample Diameter, (d), cm		9.82		
Sample Length, (L), cm		6.12		
Sample Mold or Permeamater Weight & Compacted Sam	ple, g	1151.2	5_	
Sample Mold or Permeameter Weight, g		246.08	3	
Weight of Compacted Sample, (E), g		905.1	7	
Weight of Container & Uncompacted Wet Sample, (A), g	)	248.5	4	
Weight of Container & Uncompacted Dry Sample, (B), g	r	214.70	0	
Weight of Water, g		34.18		
Weight of Container, (C), g		116.23		
Weight of Dry Soil, (WS), g		98.53	,	
Water Content, %		34.69	7	
Compacted Bulk Density of Sample, (γm) , g/cc		_1.95	!	

$$\gamma_{\rm m} = \frac{E}{(\pi) (d/2)^{2}(L)}$$

$$\gamma_{\rm d} = \left(\frac{\gamma_{\rm m}}{W + 100}\right) 100$$

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND UTILIZED CALIBRATED TEST INSTRUMENTS AS INDICATED ABOVE. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THE ABOVE DATA.

Checked By HBenny

Date 3-3-90

## HYDRAULIC CONDUCTIVITY DATA SHEET

Sample ID.	0-078		Page <u>4</u> of <u>5</u>		
Procedure No.	ETAL-09	Date Issued	12-1-89		

DATE		TIME				VOLUM	E DETERM				
Year <u>90</u> (Mo/Dsy)	System Down (Hr: Min)	System Up (Hr: Min)	Time Change (Hr: Min)	Eff Temp (°C)	luent   Weight   (±0.1g)	Cont Tare (±0.1g)	ainer   Tare & Ef-  fluent(±0.1g)	System Temp (°C)	Pres Pore H <sub>2</sub> 0 Cylpsil C44	sure Back H <sub>2</sub> O (psi)	Operato Initials
2-22	_	0900				61.09			50	N/A	RGA
2-22	1320	1325	4:20	22	16.10	61.09	77.19	22	50	NA	RGA
2-22	1500	1500	1:35	22	5.48	61.09	46.57	22	50	NIA	RGA
2.28	1000	1000	19:00	21	81.26	150.48	231.74	21	50	NIA	REA
2-23	1445	1445	4.45	22	19,53	61.09	80,62	22	50	MLA	RG
2-26	0745	07.55	65:00	21	348.02	150.48	498,50	21	60	NIA	RGA
2-26	18 10	5TOP	5115	22	28.91	61.09	90.00	27.	60	NA	Ru
2-26	Stop	4.55×							-	_	REA
										1	
								_/			
								· ·			
									1		
					<u> </u>						
				<del></del>			-				
								· · · · ·	<del> </del>		

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND UTILIZED CALIBRATED TEST INSTRUMENTS AS INDICATED ABOVE. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THE ABOVE DATA.

Checked By Hlbenny	Date _	3-3-90	
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HYDRAULIC	CONDUCTIVITY	DATA	SHEET
III DIIMOLIO	CONDUCTION		

Page <u>5</u> of <u>5</u>

Procedure No. <u>ET4C-09</u>

Date Issued 12-1-89

Date	Hydraulic	Hydraulic	Effluent	Analysis	<b>_</b>	
Year	Conductivity (cm/sec)	Gradient (cm/cm)	(Sample Number)	Lab. Notebook Location	Effluent Description	Operator Initials
2-22	START	<b>⊤स्ट</b> र			CLEAR	RGA
2-22	2.37×10-8	574.71	-	_	CLEAR	RGA
2-22	2.21×10-8	574.71			CIENR	RGA
223	2.73 × 10-8	544.71		-	CLEAR	RUA
2-23	2-62 × 10"E	594.71			CIERR	RGA
2-26	2.85 X10-8	689.66	-	<u>-</u>	CLEAR	RLA
2-26	2.93×10-8	689.66	_	_	CLEAR	REA
STOP	1557	2.7 +/- 0.	3 × 10 8 C	M/SEC		RGA
					· · · · · · · · · · · · · · · · · · ·	
						•
					· · · · · · · · · · · · · · · · · · ·	
					··· · · · · · · · · · · · · · · · · ·	
		-				
		-				

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND UTILIZED CALIBRATED TEST INSTRUMENTS AS INDICATED ABOVE. APPROVED TEST PROCEDURES WERE FOLLOWED TO PRODUCE THE ABOVE DATA.

Checked By HBenny

\_\_\_\_ Date <u>3-3-9</u>6

Westinhouse Hanford Company	CHAIN C	)F CUSTODY
Company Contact Jon Lindbers	Teleph	one <u>6-5005</u>
Sample Collected by Kim. Single	· <b>/</b> = · · · · · · = = · ·	0-90 Time NA
Sample Locations 1100 Em-1		
ice Chest No		ge No. WHC-N-36 6-5 pgs 6-7
Remarks		
Bill of Lading No	4 Offsite Property No.	NA
Method of Shipment Jerry Ale		
Shipped to 2101-1 200		
1 1 2 1	Sample Identification	<del>/</del>
1) MW-2- (, /plastic bag so	oil, Testi Grain & MoisT	ewl
2) MW-2-2, / plastic ka	g soil; Grain Size E /	Misters Tests
Í		
3) MW-2-3, I plante by	gsoil, Grain Size	Test
<u> </u>		
4)MW-2-4 / plantel &	as soil; Test, Grain S	ère Moisture, sermeameter
	At berg. lin	ret
·		
	Chain of Possession	
Relinquised by?	Received by: R.G. ALEXANDER	Date/Time:
SHRaufet BM Sinfet	RG Alexander	2-4-90 / 6630
	Received by:	Date/Time:
Relinquised by:	Received by:	Date/Time:
Relinquised by:	Received by:	Date/Time:
reinquiseu by.	NECEIVEU DY.	Date/fine.



## SAMPLE ANALYSIS REQUEST

	ELD SECTION			
Coilector: _	K.M.Singleton o	ate Sample	od:/-75,76,7130-Time: <u>NA</u> hours	
Company (	Contact Jon Lindberg	5	Telephone ( ) 6-5005	
SAMPLE NUMBER	NUMBER & TYPE OF SAMPLE CONTAINERS	TYPE OF SAMPLE*	ANALYSIS REQUESTED	
MW-2-1	1 plante bay	Soil	Grain Size ( Mr stul	
MW 2-2	I planted bog	sál	Grain Size & Moisture	
MW-2-3	I plastie brz	soil	Grain Size	
MW-24	I plack bas	Soil	Grain Size, A. amits	
	<u> </u>		E permeanule	
	······································		· · · · · · · · · · · · · · · · · · ·	
		·		
		, also	contains in a stainte	
	ndling and/or Storage			
	ABORATORY SECTION	<del></del>		
	Received by Date			
•	•	<del></del>		
Indicate Use Ba	Whether Sample Is Soil, S ck of Page for Additional I	Sludge, Wa Information	ter, Etc. Relative to Sample Location.	

RADIATION RELEASE	RADIATION RELEASE
Released By Operational Health Physics  Remarks S 91 Pullud 31 Mag.  Mw 2-1  54-3000-022 (09/98)	Released By Operational Health Physics'  Remarks Supplied
RADIATION RELEASE  Date 1-26-90  Released By Operational Health Physics  Remarks On Author 54-3000-022 (09/88)	SURVEYED BY RM FOR SHIPMENT  Dose rate – side of container  Max. dose rate through the container  Dose rate to handle container  Dose rate at nearest approach on conveyance  mr-hr  External contamination  SWP and RSR required  Yes □ No ☑  SURVEYED BY TE BALLIAN (60.0670  DATE 130.190  MW-2-4  54-6800-009(1-66)

**?**¹